

# FLK 14/16/EZ-DR/ 400/S7 - Cable



2293886

<https://www.phoenixcontact.com/us/products/2293886>

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Round cable set; controller: SIMATIC® TOP connect; connection 1: IDC/FLK socket strip (1x 16-position); connection 2: IDC/FLK socket strip (1x 14-position); cable length: 4 m



## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2293886                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK221S                         |
| GTIN                                 | 4017918125578                  |
| Weight per piece (including packing) | 240.5 g                        |
| Weight per piece (excluding packing) | 233.5 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

### Environmental and real-life conditions

#### Ambient conditions

|   |  |
|---|--|
| Degree of protection                                    | IP00                                     |
| Degree of protection (Installation location)            | ≥ IP54 (Installation location)           |
| Ambient temperature (operation) (fixed installation)    | -40 °C ... 70 °C (fixed installation)    |
| Ambient temperature (operation) (flexible installation) | -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport)                 | -40 °C ... 80 °C                         |
| Altitude  | ≤ 2000 m                                 |

### Electrical properties

|                          |                                  |
|--------------------------|----------------------------------|
| Operating voltage (AC)   | ≤ 30 V AC                        |
| Operating voltage (DC)   | ≤ 60 V DC                        |
| Nominal operating mode   | 100% operating factor            |
| Current (Per path, 50°C) | ≤ 1 A (Uncoiled, see derating)   |
| Current (Per path, 70°C) | ≤ 0.6 A (Uncoiled, see derating) |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 4 m |
|--------------|-----|

#### 14X0.14 [PVC]

|   |   |
|---|---|
| UL AWM Style                                  | 2464/1061   |
| Number of positions                           | 14  |
| Shielded                                      | no  |
| Cable type                                    | 14X0.14 [PVC]   |
| Conductor type                                | Round cable set   |
| Conductor structure signal line               | 7x 0.16 mm  |
| AWG signal line                               | 26  |
| Conductor cross-section                       | 14x 0.14 mm <sup>2</sup>  |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm   |
| External cable diameter                       | 6.40 mm ±0.4 mm   |
| Outer sheath, material                        | Semi-rigid PVC  |
| External sheath, color                        | gray  |
| Conductor material                            | Tin-plated Cu litz wires  |
| Cable resistance                              | ≤ 145 Ω/km (20 °C)  |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)  |
| Smallest bending radius, fixed installation   | 55 mm   |
| Smallest bending radius, movable installation | 104 mm  |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |

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|                   |   |
|-------------------|---|
| Halogen-free      | no  |
| Flame resistance  | IEC 60332-1-2 (raw cable)                     |
|                   | VDE 0842, Part 332-1-2 (raw cable)            |
|                   | IEC 60332-3-22 (raw cable)                    |
|                   | UL VW-1                                       |
|                   | CSA FT-1                                      |
| Resistance to oil | can withstand occasional splashes (raw cable) |

Color code: Single-core wire

|              |                                 |
|--------------|---------------------------------|
| white        | IDC/FLK16 (1) = IDC/FLK14 (10)  |
| violet       | IDC/FLK16 (2) = IDC/FLK14 (8)   |
| white-brown  | IDC/FLK16 (3) = IDC/FLK14 (12)  |
| blue         | IDC/FLK16 (4) = IDC/FLK14 (7)   |
| white-orange | IDC/FLK16 (5) = IDC/FLK14 (14)  |
| green        | IDC/FLK16 (6) = IDC/FLK14 (6)   |
| yellow       | IDC/FLK16 (8) = IDC/FLK14 (5)   |
| gray         | IDC/FLK16 (9) = IDC/FLK14 (9)   |
| orange       | IDC/FLK16 (10) = IDC/FLK14 (4)  |
| white-black  | IDC/FLK16 (11) = IDC/FLK14 (11) |
| red          | IDC/FLK16 (12) = IDC/FLK14 (3)  |
| white-red    | IDC/FLK16 (13) = IDC/FLK14 (13) |
| brown        | IDC/FLK16 (14) = IDC/FLK14 (2)  |
| black        | IDC/FLK16 (16) = IDC/FLK14 (1)  |

## Connection data

Connection 1

|                                  |                              |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 1                            |
| Number of positions              | 16                           |
| Insertion/withdrawal cycles      | > 50                         |
| Pitch                            | 2.54 mm                      |

Connection 2

|                                  |                              |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method                | IDC/FLK socket strip         |
| Number of connections            | 1                            |
| Number of positions              | 14                           |
| Insertion/withdrawal cycles      | > 50                         |
| Pitch                            | 2.54 mm                      |

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning |
|--------------------|--|

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instructions of the respective third-party manufacturer must also be met.

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## Drawings

Connection diagram

| <b>14-pos.<br/>Socket strip<br/>PIN</b> | <b>16-pos.<br/>Socket strip<br/>PIN</b> | <b>Wire color</b>   |
|---|---|---------------------|
| <b>1</b>                                | <b>16</b>                               | <b>Black</b>        |
| <b>2</b>                                | <b>14</b>                               | <b>Brown</b>        |
| <b>3</b>                                | <b>12</b>                               | <b>Red</b>          |
| <b>4</b>                                | <b>10</b>                               | <b>Orange</b>       |
| <b>5</b>                                | <b>8</b>                                | <b>Yellow</b>       |
| <b>6</b>                                | <b>6</b>                                | <b>Green</b>        |
| <b>7</b>                                | <b>4</b>                                | <b>Blue</b>         |
| <b>8</b>                                | <b>2</b>                                | <b>Violet</b>       |
| <b>9</b>                                | <b>9</b>                                | <b>Gray</b>         |
| <b>10</b>                               | <b>1</b>                                | <b>White</b>        |
| <b>11</b>                               | <b>11</b>                               | <b>White-black</b>  |
| <b>12</b>                               | <b>3</b>                                | <b>White-brown</b>  |
| <b>13</b>                               | <b>13</b>                               | <b>White-red</b>    |
| <b>14</b>                               | <b>5</b>                                | <b>White-orange</b> |
|   | <b>7</b>                                | <b>-</b>            |
|   | <b>15</b>                               | <b>-</b>            |

Pin assignment and color code

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Diagram



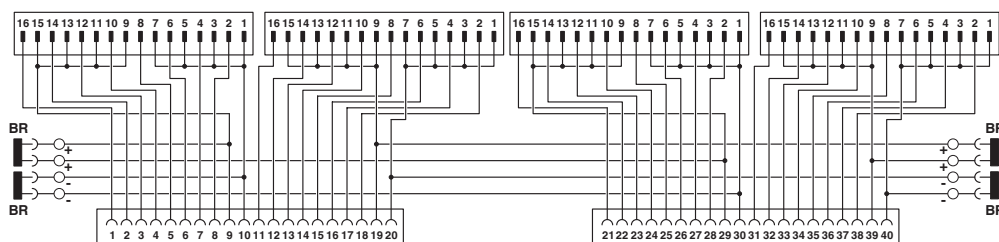
Maximum permissible current per path in uncoiled state

Circuit diagram



Pin assignment Siemens S7 front connector modules 6ES7 921-3...

Circuit diagram



Pin assignment of digital Siemens S7 front plug-in modules 6ES7 921-5AB20-0AA0 or 6ES7 921-5AH20-0AA0

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242220 |
| ECLASS-15.0 | 27242220 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000237 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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